

Title (en)

CRYOGENIC FLUID TRANSFER SYSTEM AND METHOD

Title (de)

SYSTEM UND VERFAHREN FÜR DEN TRANSFER EINER KRYOGENEN FLÜSSIGKEIT

Title (fr)

SYSTÈME ET PROCÉDÉ DE TRANSFERT D'UN FLUIDE CRYOGÉNIQUE

Publication

EP 3762644 A1 20210113 (EN)

Application

EP 19713254 A 20190306

Priority

- US 201862639311 P 20180306
- US 2019020908 W 20190306

Abstract (en)

[origin: US2019277450A1] A system for transferring cryogenic fluid from a dispensing tank to a receiving tank is disclosed. The dispensing tank stores a supply of cryogenic liquid with a dispensing tank headspace above the liquid. A compressor has an inlet connected to the headspace of a receiving tank and an outlet connected to the headspace of the dispensing tank. A liquid transfer line is in fluid communication with the liquid side of the dispensing tank and the receiving tank. Cryogenic liquid is transferred from the dispensing tank to the receiving tank when the compressor is activated so as to transfer vapor from the headspace of the receiving tank to the headspace of the dispensing tank to create a pressure differential between the dispensing and receiving tanks.

IPC 8 full level

F17C 5/00 (2006.01); **F17C 7/00** (2006.01)

CPC (source: EP US)

F17C 5/00 (2013.01 - EP US); **F17C 5/02** (2013.01 - US); **F17C 7/00** (2013.01 - EP US); **F17C 7/02** (2013.01 - US); **F17C 2205/0367** (2013.01 - EP US); **F17C 2221/014** (2013.01 - EP US); **F17C 2221/033** (2013.01 - EP US); **F17C 2223/0161** (2013.01 - EP US); **F17C 2223/033** (2013.01 - US); **F17C 2225/0161** (2013.01 - EP US); **F17C 2225/033** (2013.01 - US); **F17C 2227/0107** (2013.01 - EP US); **F17C 2227/0157** (2013.01 - EP US); **F17C 2227/0311** (2013.01 - US); **F17C 2227/042** (2013.01 - US); **F17C 2250/0408** (2013.01 - US); **F17C 2260/025** (2013.01 - EP US); **F17C 2260/036** (2013.01 - US); **F17C 2265/065** (2013.01 - EP US); **F17C 2270/0139** (2013.01 - EP US)

Citation (search report)

See references of WO 2019173445A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 10890293 B2 20210112; **US 2019277450 A1 20190912**; EP 3762644 A1 20210113; EP 3762644 B1 20231108; EP 3762644 C0 20231108; JP 2021516316 A 20210701; JP 7236450 B2 20230309; WO 2019173445 A1 20190912

DOCDB simple family (application)

US 201916293985 A 20190306; EP 19713254 A 20190306; JP 2020546449 A 20190306; US 2019020908 W 20190306